## Current State of Progress toward the Realization of "Challenge 2020 Vision"

Tokyo Gas Co., Ltd.

Tokyo Gas Co., Ltd. (President: Mr. Tsuyoshi Okamoto, hereafter "Tokyo Gas") announced last November its group's mid-term management vision toward 2020, "Challenge 2020 Vision" (hereafter "Vision"), with a view to demonstrating the role and responsibility to make a contribution to the improvement of national standard of living and the economic development nationwide as a top runner in the field of natural gas, by increasing the value to customers and society at large, under the heightened expectation toward natural gas ever since the Great East Japan Earthquake. In the Vision, Tokyo Gas aims at enhancing the LNG value chain, which covers procurement and transportation of LNG, production and supply of city gas, and provision of energy solutions to a variety of customer needs regarding energy as a whole.

As for the main progress in raw materials procurement after almost a year has passed since the announcement, Tokyo Gas has been negotiating with the local project implementation body, Dominion Cove Point LNG, LP, of LNG procurement from Cove Point LNG Project, aiming to import LNG derived from U. S. natural gas, including shale gas, around 2017. In addition, Tokyo Gas is making an effort to diversify LNG sources, taking into account the supply stability, price competitiveness, and flexibility of procurement, by such initiatives as starting to receive LNG from Australian Pluto LNG Project in June 2012, and concluding a Memorandum of Agreement to renew the sale and purchase contract from Malaysia Dua LNG Project in August 2012. Besides, Tokyo Gas is developing overseas business by such initiatives as acquiring shares of a natural gas fired power station in Belgium, and signing Memorandum of Understanding for cooperation with Petrovietnam Gas.

As for upgrading the infrastructure of production and supply, Tokyo Gas will start such practical study as pipeline route examination, etc. of "Hitachi-Kashima Line (name TBD)" and begin to implement demand potential survey along the route of "Hitachi-Onahama Line (name TBD)", etc. Also, Tokyo Gas has already started construction of "Ibaraki-Tochigi Line" in January 2012, signed a sale and purchase contract regarding the planned construction site of "Hitachi LNG Terminal" with the site owner, Ibaraki prefecture in June 2012, and started construction of the Terminal in July 2012, aiming at the commencement in FY2015. In order to enhance energy security, Tokyo Gas, together with both Shizuoka Gas Co., Ltd. and INPEX CORPORATION, has reached an agreement in June 2012 to back up supply of natural gas reciprocally through the existing pipelines already connected one another, in case gas supply could be terminated.

As for energy solutions, with the target in the Vision to expand its power generation capacity to 3 to 5 million kW by 2020 including interests of other companies, Tokyo Gas, as a part of this initiative, made a decision in October 2012 on the construction of Ohgishima Power Station Unit 3 to be commenced in FY2015. Then, Tokyo Gas is also spreading and expanding distributed energy systems steadily, with the estimate that annual sales targets of FY2012 for residential fuel cell systems called "Ene-Farm", cogeneration systems and gas fueled air-conditioning systems are to be achieved respectively.

Tokyo Gas is determined to make an effort for the further enhancement of LNG value chain, continuously aiming at the realization of "Challenge 2020 Vision"

Reference: Current State of Progress of main themes in "Challenge 2020 Vision" \*Underlined part means what was newly achieved after April 2012.

(1) List is what was levely achieved after April 2012.		
Overseas	(1) Initiatives to diversify LNG sources	
Business	(1) Examination regarding procurement from U.S. Cove Point LNG Project(Spring 2012 $\sim$ )	
	Negotiation in progress with Dominion Cove Point LNG, LP, conjointly with Sumitomo	
Resource	Corporation, aiming at importing LNG derived from U.S. natural gas, including shale gas.	
Procurement	2 Receipt of LNG from Pluto LNG Project (June, 2012)	
	Contract term: FY2012-FY2024 Volume: $1.5 - 1.75$ million ton/year	
	(2) Signing of a Monorandum of A groupont to range LNG solas and purchase contract with	
	Malauria LNC Sdr. Dhd. (August 2012)	
	Malaysia LNG Sun. Bnd. (August, 2012)	
	Contract term: 10 years from FY2015, Volume: 0.9 million ton/year	
	(4) Signing of a contract regarding sale and purchase of LNG from Ichthys LNG Project	
	(December, 2011) and resolution to participate in the project (January, 2012)	
	Contact term: 15 years from 2017, Volume: 1.05 million ton/year,	
	Upstream equity: 1.575%	
	(5) Conclusion of heads of agreement regarding the extension of LNG sale and nurchase	
	contract from Brunoi L NG Droiect (March 2012)	
	Contract from Bruner Live Project (Watch, 2012)	
	Contract term: 10 years from F Y 2013, Volume: 1 million ton/year,	
	Other buyers: The Tokyo Electric Power Co., Inc., Osaka Gas Co., Ltd.	
	(2) Development of overseas business	
	① Acquisition of shares of a natural-gas-fired power station in Belgium (June, 2012)	
	Acquisition of 26.66% shares of the operating company by means of share transfer	
	(2) Conclusion of a Memorandum of Understanding for cooperation with Petrovietnam Gas	
	(March 2012)	
	with the FEED (Front End Engineering and Design) contract of the first LNG receiving	
	terminal in Vietnam, Tokyo Gas signed a Memorandum of Understanding regarding the	
	establishment of LNG value chain in Vietnam.	
	③ Implementation of feasibility study regarding the power and thermal supply infrastructure	
	installment in the redevelopment plan in Thailand (February, 2012)	
Production	(1) Development of infrastructure construction centered upon Ibaraki prefecture region	
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Production Supply	<ol> <li>Development of infrastructure construction centered upon Ibaraki prefecture region         <ol> <li>Hitachi-Kashima Line (name TBD), Hitachi-Onahama Line (name TBD)</li> <li>Commencement of practical study such as pipeline route examination of Hitachi -Kashima Line (name TBD), including Hitachi branch area.</li> <li>Kashima Waterfront Line                 After completion, gas supply started to Tepco Kashima thermal power plant in June 2012.</li> <li>Commencement of construction work of "Hitachi LNG Terminal" (July, 2012)                 With the commencement target of FY2015, trunk line construction has been started in                 January, 2012. The sale and purchase contract regarding the planned construction site was                 concluded with the site owner, Ibaraki prefecture, and construction work for Hitachi LNG                 Terminal has already been commenced.</li> <li>Conclusion of reciprocal backup supply contract of natural gas in case of an emergency                 (June, 2012)                 Agreed with Shizuoka Gas Co., Ltd. and INPEX CORPORATION on reciprocal backup                 supply of natural gas through the pipeline network already connected one another, when                 natural gas supply could be terminated.</li> <li>Promotion of trunk line construction</li></ol></li></ol>	
Production Supply	<ol> <li>(1) Development of infrastructure construction centered upon Ibaraki prefecture region         <ol> <li>(1) Hitachi-Kashima Line (name TBD), Hitachi-Onahama Line (name TBD),                 Commencement of practical study such as pipeline route examination of Hitachi -Kashima                 Line (name TBD), and of demand potential survey along the route of Hitachi-Conahama                 Line (name TBD), including Hitachi branch area.</li> <li>(2) Kashima Waterfront Line                 After completion, gas supply started to Tepco Kashima thermal power plant in June 2012.</li> <li>(2) Commencement of construction work of "Hitachi LNG Terminal" (July, 2012)                 With the commencement target of FY2015, trunk line construction has been started in                 January, 2012. The sale and purchase contract regarding the planned construction site was                 concluded with the site owner, Ibaraki prefecture, and construction work for Hitachi LNG                 Terminal has already been commenced.</li> <li>(3) Conclusion of reciprocal backup supply contract of natural gas in case of an emergency                 (June, 2012)                 Agreed with Shizuoka Gas Co., Ltd. and INPEX CORPORATION on reciprocal backup                 supply of natural gas through the pipeline network already connected one another, when                 natural gas supply could be terminated.</li> <li>(4) Promotion of trunk line construction</li></ol></li></ol>	

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Energy	(1) <u>Construction determined on Objishima Power Station Unit 3 (October, 2012)</u>
Solution	Construction determined on Ohgishima Power Station Unit 3, already undergone
	environmental assessment and capable of making prompt contribution for the realization
	of stable and efficient power supply. Ground-breaking is scheduled in November 2012.
	and so is commencement in FY2015 Maximum efficiency is to be approximately 58%
	and so is commencement in 1 12015. Waximum enterency is to be approximately 50%
	(2) Sensed and Dremetian of distributed energy systems, and ass field sin conditioning
	(2) Spread and Promotion of distributed energy systems and gas-fueled air conditioning
	systems, contributing for the electricity peak-cut, energy conservation and CO2 emission
	reduction
	(1) Ene-Farm: <u>Annual target of 7,100 units is expected to be achieved</u> , reflecting the customer
	demand for distributed energy system and energy conservation initiatives, with the aid of
	national budget for emergency economic measures.
	2 Cogeneration systems: Annual target of 150,000kW is expected to be achieved, by making
	a full use of various kinds of subsidies, reflecting the demand for energy-security and
	BCP.
	(3) Gas fueled air-conditioning systems: Annual target of 100 000 RT including 7 000 units of
	GHP is to be achieved, with the commercialization of GHP named "Excel Plus" which is
	againpad with the self sustaining function in case of blockouts, dealing with the demand
	for alastrisity conservation
	(2) Nationwide exerction for LNC supply
	(5) Nationwide operation for LNG supply
	In October 2012, LING supply started for Isnikari LING Terminal of Hokkaido Gas Co.,
	Ltd., which is to be commenced in December, 2012. Contract term is 11 years from
	FY2012, and annual contract volume is approximately 300 - 400 thousand ton per year
	with approximately 90 thousand ton in FY2012. Moreover, investment was made on
	Hokkaido LNG Co., Ltd., the owner company of Ishikari LNG Terminal in October 2012,
	with the equity ratio of 20% for Tokyo Gas.
	(2) Conclusion of LNG sale and purchase contract with Saibu Gas
	Contract term: 16 years from FY2014, Volume: Approx. 300 thousand ton/year
	(4) Demand development with the commencement of Chiba-Kashima Line
	Demand development forecast in FY2012: Approx. 0.3 billion m3
	(5) Promotion of smart energy systems
	① Installation determined in October 2012 of newly developed cogeneration control system
	called "Gene-Smart", to draw maximum capability of electricity supply of cogeneration
	systems in case of blackouts, to the large-sized complex facility, "Tokyo East 21", to
	promote smart-energy network
	(2) In "Fujisawa Sustainable Town" which is operated mainly by Panasonic Corporation both
	installation of recent type of "Fne-Farm" and cogeneration system and area energy
	network initiatives have been promoted
	3 Demonstration test of smart energy network in Seniu branch (Arakawa ward Tokyo to)
	bes recorded 12.6% of energy concernation rate and 25.8% of CO2 emissions reduction
	nas recorded 15.0% of energy conservation rate and 55.8% of CO2 emissions reduction
	$\frac{\text{falle III F I 2011.}}{Operator station test and emission test among the set of t$
	(4) Demonstration test underway of condominum-type smart houses at isogo company house
	in Isogo ward, Yokonama city, Kanagawa prefecture since March 2012.
	<sup>(3)</sup> Partly commencement in April 2012 of construction work of smart energy network in the
	northern area of east exit of Tamachi Station (The first project of smart energy network in
	urban development area in Japan)
	(6) Reinforcement of support for 42 Lifeval companies
	•Promotion of the establishment of community-based marketing schemes, strengthening the
	ties with customers, utilizing all the business opportunities to encounter customers
	·Commencement of operations of service business management system to support the
	provision of carefully tuned values and services to deal with customers' needs.